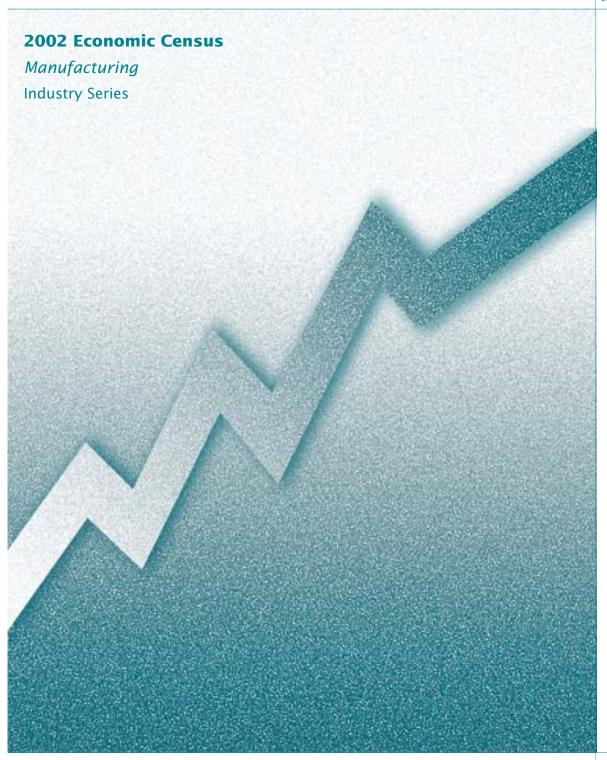
Flour Milling: 2002

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Helping You Make Informed Decisions

U.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU



Table 1. Historical Statistics for the Industry: 2002 and Earlier Years

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

		All	All em	ployees	Pro	duction wor	kers		Total	Total	Total capital
Industry and year ¹	Com- panies ²		Number ⁴	Payroll (\$1,000)	Number ⁴	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	materials	shipments	expendi- tures (\$1,000)
311211, Flour milling	213 N N N N 254	340 N N N N 382	11 636 11 617 12 599 12 058 10 892 12 762	418 522 441 371	8 418 8 610 9 581 8 881 8 043 9 287	18 375 19 193 20 020 19 108 17 993 20 386	285 845 268 803 293 275 271 170 266 705 296 258	2 003 868 1 684 364 2 116 021 1 666 108 1 863 965 1 894 615	4 922 509 4 568 524 4 498 712 4 592 758 5 471 831 6 099 513	6 905 731 6 255 569 6 612 109 6 270 602 7 359 803 8 001 978	154 134 119 134 196 897 168 998 185 013 196 633

¹Statistics presented for years ending in 2 and 7 are census data. Interim census years are derived in a representative sample of manufacturing establishments canvassed in the Annual Survey of Manufactures (ASM).

²For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.

³Includes establishments with payroll at any time during the year.

⁴Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 2. Industry Statistics for Selected States: 2002

[States that are a disclosure or with less than 100 employees are not shown. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographical definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

		All establi	shments ²	All em	ployees	Pro	oduction wor	kers				
Industry and geographic area	E¹	Total	With 20 em- ploy- ees or more	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	Total cost of materials (\$1,000)	Total value of shipments (\$1,000)	Total capital expendi- tures (\$1,000)
311211, Flour milling												
United States. Colorado Kentucky Michigan. Minnesota North Carolina Oklahoma Oregon Utah Wisconsin	- - 1 -	340 7 5 13 16 19 6 5 8	168 1 3 7 12 6 5 2 5 3	11 636 115 149 663 599 459 505 107 254 234	448 597 5 787 4 390 28 730 24 630 16 144 17 672 4 937 8 927 7 947	8 418 87 91 490 496 319 409 78 170 192	18 375 202 193 992 1 056 685 920 186 369 404	285 845 4 037 2 562 17 908 19 080 9 979 11 755 3 305 5 777 5 679	2 003 868 54 026 16 308 97 202 108 348 50 577 50 756 10 204 34 530 34 320	4 922 509 64 839 40 830 137 010 346 374 153 259 130 288 44 366 93 375 137 285	6 905 731 118 090 55 722 232 616 453 685 204 008 179 058 53 871 128 053 170 650	154 134 2 269 999 3 537 9 651 5 167 3 110 1 778 1 429 4 622

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Includes establishments with payroll at any time during the year.

³Number of employees figures represent average number of production workers for pay period that includes the 12th of March. May, August, and November plus other employees for payroll period that includes the 12th of March.

period that includes the 12th of March.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 3. Detailed Statistics by Industry: 2002

[Data based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). For information on confidentiality protection, sampling error, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Item	Value
311211, Flour milling	
Companies ¹ number	213
All establishments ² number. Establishments with 1 to 19 employeesnumber. Establishments with 20 to 99 employeesnumber. Establishments with 100 employees or morenumber.	340 172 142 26
All employees3 number. Total compensation \$1,000. Annual payroll \$1,000. Total fringe benefits \$1,000.	11 636 544 698 448 597 96 101
Production workers, average for year	8 418 8 347 8 227 8 558 8 469
Production worker hours	18 375 285 845
Total cost of materials \$1,000. Materials, parts, containers, packaging, etc., used \$1,000. Resales \$1,000. Purchased fuels \$1,000. Purchased electricity \$1,000. Contract work \$1,000.	4 922 509 4 561 904 204 728 31 578 119 919 4 380
Quantity of electricity purchased for heat and power	2 177 602 D
Total value of shipments \$1,000. Primary products value of shipments \$1,000. Secondary products value of shipments \$1,000. Total miscellaneous receipts \$1,000. Value of resales \$1,000. Contract receipts \$1,000. Other miscellaneous receipts \$1,000.	6 905 731 6 432 495 143 928 329 308 324 515 D
Primary products specialization ratio percent. Value of primary products shipments made in all industries \$1,000. Value of primary products shipments made in this industry \$1,000. Value of primary products shipments made in other industries \$1,000.	98 6 683 757 6 432 495 251 262
Coverage ratiopercent	96
Value added\$1,000	2 003 868
Total inventories, beginning of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	492 754 87 894 11 134 393 726
Total inventories, end of year \$1,000. Finished goods inventories \$1,000. Work-in-process inventories \$1,000. Materials and supplies inventories \$1,000.	581 971 104 229 15 445 462 297
Gross value of depreciable assets (acquisition costs) at beginning of year \$1,000. Total capital expenditures (new and used) \$1,000. Buildings and other structures (new and used) \$1,000. Machinery and equipment (new and used) \$1,000. Automobiles, trucks, etc., for highway use \$1,000. Computers and peripheral data processing equipment \$1,000. All other expenditures for machinery and equipment \$1,000. Total retirements \$1,000. Gross value of depreciable assets at end of year \$1,000.	2 708 573 154 134 30 297 123 837 4 039 5 661 114 137 116 266 2 746 441
Depreciation charges during year	137 458
Total rental payments	48 988 17 220 31 768
Total other expenses ⁴ . \$1,000. Response coverage ratio ⁵ . percent. Repair and maintenance services of buildings and/or machinery ⁴ . \$1,000. Communications services ⁴ . \$1,000. Legal services ⁴ . \$1,000. Accounting, auditing, and bookkeeping services ⁴ . \$1,000. Advertising and promotional services ⁴ . \$1,000. Expensed computer hardware and supplies and purchased computer services ⁴ . \$1,000. Refuse removal (including hazardous waste) services ⁴ . \$1,000. Management consulting and administrative services ⁴ . \$1,000. Taxes and license fees ³ . \$1,000. All other expenses ⁴ . \$1,000.	189 638 91 65 649 3 683 1 114 791 1 256 1 086 3 117 1 778 12 462 98 704

¹For the census, a company is defined as a business organization consisting of one establishment or more under common ownership or control.
2Includes establishments with payroll at any time during the year.
3Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.
4Based on Annual Survey of Manufactures (ASM) sample data.
5A response coverage ratio is derived for this item by calculating the ratio of the weighted employment (establishment data multiplied by sample weight) for those Annual Survey of Manufactures (ASM) establishments that reported to the weighted total employment for all ASM establishments classified in this industry.

Note 1: The amounts shown for other expenses reflect only those services that establishments purchase from other companies.

Note 2: The data in this table are based on the 2002 Economic Census and the 2002 Annual Survey of Manufactures (ASM). To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain sampling errors and nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 4. Industry Statistics by Employment Size: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Employment size class			All emp	oloyees	Pr	oduction worke	ers		Total	Total	Total capital
		All estab- lish- ments ²	Number ³	Payroll (\$1,000)	Number ³	Hours (1,000)	Wages (\$1,000)		cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)
311211, Flour milling											
All establishments	_	340	11 636	448 597	8 418	18 375	285 845	2 003 868	4 922 509	6 905 731	154 134
1 to 4 employees 5 to 9 employees	9	91 31	180 208	6 561 7 589	135 157	280 338	4 461 5 061	18 135 19 848	72 279 69 005	90 370 88 674	3 333 2 830
10 to 19 employees	1	50	737	29 647	558	1 239	20 507	98 767	345 669	442 926	9 841
20 to 49 employees	_	98 45	3 095 3 135	124 869 121 725	2 291 2 224	5 113 4 844	82 690 76 287	561 697 566 606	1 942 949 1 547 611	2 497 074 2 106 045	59 076 46 058
100 to 249 employees	_	24 2	h	Ď	D	D	D	D	D	D	D
500 to 999 employees	_					_					
1,000 to 2,499 employees	=	_	_	_	_	_	_	_	_	_	_
Administrative records ⁴	9	97	266	10 250	207	451	7 147	29 628	122 529	152 158	5 427

¹Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. This technique was also used for a small number of other establishments whose reports were not received at the time data were tabulated. The following symbols are shown where estimated data account for 10 percent or more of the figures shown: 1–10 to 19 percent; 2–20 to 29 percent; 3–30 to 39 percent; 4–40 to 49 percent; 5–50 to 59 percent; 6–60 to 69 percent; 7–70 to 79 percent; 8–80 to 89 percent; 9–90 percent or more.

¹Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

⁴Some payroll and sales data for small single-establishment companies with up to 20 employees (cutoff varied by industry) were obtained from administrative records of other government agencies rather than from census report forms. These data were then used in conjunction with industry averages to estimate statistics for these small establishments. Data are also included in respective size classes shown.

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 5. Industry Statistics by Primary Product Class Specialization: 2002

[Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note at end of table. For meaning of abbreviations and symbols, see introductory text]

Industry or		All	All em	ployees	Pr	oduction work	ers		Total	Total	Total capital	
product class code	Industry or primary product class	All estab- lish- ments ¹	Number ²	Payroll (\$1,000)	Number ²	Hours (1,000)	Wages (\$1,000)	Value added (\$1,000)	cost of materials (\$1,000)	value of shipments (\$1,000)	expendi- tures (\$1,000)	
311211	Flour milling	340	11 636	448 597	8 418	18 375	285 845	2 003 868	4 922 509	6 905 731	154 134	
3112111 3112114 3112117 311211A	Wheat flour, except flour mixes, made in flour mills . Wheat mill products, except flour Com mill products	153 4 31	6 720 288 2 095	274 057 9 635 77 819	4 989 232 1 304	11 127 545 2 816	183 387 6 232 41 566	1 226 361 35 370 453 115	3 784 154 36 400 603 699	4 991 319 71 632 1 056 407	100 975 5 507 23 993	
311211B	batters), made in flour mills Other grain mill products	19 13	1 469 461	50 941 17 192	1 056 350	2 116 739	29 824 11 304	167 413 74 663	204 168 122 338	371 321 197 069	11 236 4 966	

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

¹Includes establishments with payroll at any time during the year.

²Number of employees figures represent average number of production workers for pay period that includes the 12th of March, May, August, and November plus other employees for payroll period that includes the 12th of March.

Table 6a. Products Statistics: 2002 and 1997

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

	onfidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For me		Number of companies with			shipments
Product code	Product		shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
311211	Flour milling	002	N N	X	X X	6 683 757 7 837 086
3112111	Wheat flour, except flour mixes, made in flour mills	002 997	N N	X	X X	4 339 890 5 146 612
31121111	Commercial dollar exports, all white flour types, made in flour mills.		N	X	X	49 851
3112111111		997	N	X	X	116 831
31121112	All other exports of white flour (including Public Law 480)	997	7 7	X	4 368.8 9 266.4	49 851 116 831
	made in flour mills	002 997	N N	X	X X	35 254 D
3112111221	All other exports of white flour (including Public Law 480), made in flour mills	002 997	4	X X	2 436.3 D	35 254 D
31121113	Bakers' and institutional white bread-type flours, domestic shipments in bulk cars or trucks, made in flour mills		N N	X	X	1 652 734
3112111331	Bakers' and institutional white bread-type flours, domestic shipments in bulk cars or trucks, made in flour mills		18	X X	X 157 584.2	2 162 335 1 652 734
31121114	Bakers' and institutional white bread-type flours, domestic shipments in containers (including tote bins), made in flour	997	20	X	188 662.1	2 162 335
3112111441	mills	997	N N	X	X	454 275 D
3112111441	shipments in containers (including tote bins), made in flour mills		12	X	S	454 27 <u>5</u>
31121115	Bakers' and institutional soft wheat flour, domestic shipments, made in flour mills	997	12 N	X X	D X	D 515 191
3112111551	Bakers' and institutional soft wheat flour, domestic	997	N	Х	X	569 559
3112111561	shipments in bulk cars or trucks, made in flour mills	997	17 22	X	P51 958.4 944 987.5	471 268 505 675
	shipments in containers (including tote bins), made in flour mills		14	X	S 7. 700.0	43 923
31121116	Family white flour (except self-rising), domestic shipments, made in flour mills		16 N	X X	7 790.3 X	63 884 558 638
3112111671	Family white flour (except self-rising), domestic shipments in containers less than 25 lb, made in flour mills	997	N 15	X X	X S	914 641 472 238
3112111681	Family white flour (except self-rising), domestic shipments in containers 25 lb or more, made in flour mills	997	20 18	X X	36 003.5 P6 078.5	812 492 86 400
31121117		997	15 N	X	6 796.2 X	102 149 504 897
3112111791	Self-rising family white flour, domestic shipments, made in flour mills	997	N 14	x x	X S	327 902 106 689
31121117A1	White flour shipped to blenders or other processors for use	997	17	â	1 898.3	178 279
		002 997	11 13	X	35 728.8 8 781.1	375 639 109 615
31121117B1	White flour shipped to blenders or other processors for use in nonfood products (pet food, industrial, etc.), domestic shipments, made in flour mills		3	х	1 730.8	22 569
31121118	Whole wheat, durum, semolina, bulger, farina, and other wheat flour, except flour mixes, made in flour mills	997	10 N	X X	P4 284.7 X	40 008 563 527
31121118C1	Whole wheat flour, made in flour mills ¹	997	N 22	X	X	574 161 290 688
31121118D1	Durum flour and semolina, made in flour mills	997 002	22 6	X X	D 15 606.4	D 189 957
31121118E1	Bulgur flour, made in flour mills	997 002	8 4	X	P24 197.1 P2 222.3	342 893 29 922
31121118F1	Other wheat flour, including farina, made in flour mills	997 002	9 9	X X	3 635.5 S	77 306 52 960
3112111Y	Wheat flour, except flour mixes, made in flour mills, nsk	997 002	6 N	X X	D X X	D 5 523
3112111YWV	Wheat flour, except flour mixes, made in flour mills, nsk	997 002 997	N N N	X X X	X X X	3 960 5 523 3 960
3112114	Wheat mill products, except flour	002	N N	x	X	532 977 784 114
31121141	Wheat mill products (including feed, wheat germ, wheat bran, etc.), except flour	997	N	X X	×	529 944
3112114111	Wheat mill feed ¹	997	N 35 41	X X X	X ⁹ 9 432.8 10 720.4	771 884 426 635 661 053
3112114121	Other wheat mill products (including wheat germ, wheat bran, etc.), except flour and mill feed	002	21	Х	1 029.1	103 309
3112114Y	Wheat mill products, except flour, nsk		30 N	X	P1 027.8 X	110 831 3 033
3112114YWV	Wheat mill products, except flour, nsk	997 002 997	N N N	X X X	X X X	12 230 3 033 12 230
3112117	Corn mill products		N	X		932 724
31121171	Corn mill products		N N	X	X	903 232 926 888
3112117111	Whole cornmeal for human consumption, made in corn mills		N 18	X X	q4 162.0	898 412 64 111
		997	14	X	4 273.7	51 171

See footnotes at end of table.

Products Statistics: 2002 and 1997—Con.

[Includes quantity and value of products of this industry produced by (1) establishments classified in this industry (primary) and (2) establishments classified in other industries (secondary). Transfers of products of this industry from one establishment of a company to another establishment of the same company (interplant transfers) are also included. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

	, , , , , , , , , , , , , , , , , , ,		,	,	
		Number of companies with		Product s	shipments
Product code	Product	shipments of \$100,000 or more	Quantity of production for all purposes	Quantity	Value (\$1,000)
311211 3112117 31121171 3112117121	Flour milling—Con. Corn mill products—Con. Corn mill products—Con. Corn mill products—Con. Degermed commeal for human consumption, made in corn	40			
3112117131	mills	10	X	6 178.8 6 725.9	68 282 55 588
3112117141	consumption, made in corn mills	11 12	X	15 568.6 13 504.6	158 833 188 561
3112117151	consumption, made in corn mills	6 6	X	^q 1 503.4 4 129.2	18 265 40 524
	Hominy feed, cornmeal, and other byproducts of dry corn milling (for animal feed)	23 25	X X	91 251.5	139 022 141 645
3112117161	Corn flour, made in corn mills	9 10	X	16 210.7 S	299 632 241 121
3112117171	Other corn mill products, for human consumption	14 15	X X	D D	D D
3112117181	Other corn mill products, not for human consumption	3 1	X X	D D	D D
3112117Y	Corn mill products, nsk	N N	X X	X X	5 836 4 820
3112117YWV	Corn mill products, nsk	N N	X	X X	5 836 4 820
311211A	Prepared flour mixes (including refrigerated and frozen doughs and batters), made in flour mills	N N	X X	x x	471 222 517 430
311211A1	Prepared flour mixes (including refrigerated and frozen doughs and batters), made in flour mills	N	x	x	457 574
311211A111	1997 Pancake and waffle mixes, made in flour mills ²	N 12	X X	X X S S	513 013 97 733
311211A121	Cake mixes, including gingerbread, made in flour mills ³	12 8	X X	P1 512.0	81 512 16 151
311211A131	Biscuit mixes, made in flour mills ⁴	8 3 13	X X	D S	D 91 513
311211A141	Bread and bread-type roll mixes, made in flour mills ⁵	6 12	X X	D S	D 24 627
311211A151	Other prepared flour mixes (including cookie, piecrust, doughnut, and other sweet yeast goods mixes), made in	8	Х	D	D
	flour mills ⁶	22 17	X X	S P7 472.8	155 971 166 815
311211A161	Refrigerated doughs and batters (cookie, biscuit, bread and bread-type roll, pasta, pizza, coffeecake, pancake, etc.), made in flour mills ⁷ mil lb2002	4	X	P36.9	13 619
311211A171	Frozen doughs and batters (cookie, biscuit, bread and bread-type roll, pasta, pizza, coffeecake, pancake, etc.), made in flour mills ⁸	7	X X	S 94.5	17 422
311211AY	Prepared flour mixes (including refrigerated and frozen	6	x	148.0	57 960 71 477
0	doughs and batters), made in flour mills, nsk	N N	X X	X X	13 648 4 417
311211AYWV	Prepared flour mixes (including refrigerated and frozen doughs and batters), made in flour mills, nsk	N N	X	x x	13 648 4 417
311211B	Other grain mill products	N	Х	x	221 433
311211B1	1997 Other grain mill products	N N	X X	X X	N 221 433
311211B111	Rye, oat, buckwheat, and other flour, made in grain mills ¹ 1,000 sacks (cwt) 2002	N 18	X	X X S N	N 138 305
311211B121	Other mill feed (oats, rye, buckwheat, etc.), made in grain mills¹	N 10	X X	N S	N 83 128
311211B131	1997 Fruit flour, made in grain mills	N -	X	N -	N -
311211BY	Other grain mill products, nsk	N N	X	N X	N -
311211BYWV	1997 Other grain mill products, nsk 2002. 1997	N N N	X X X	X X X X	N _ N
311211W	Flour milling, nsk, total	N	Х		185 511 288 702
311211WY	1997 Flour milling, nsk, total	N N	X	X X X X	185 511
044044140044	Eleur milling, nek for penadministrative record	N	Х	×	288 702
311211WYWW	Flour milling, nsk, for nonadministrative-record establishments	N N	X	X X X X	34 826 18 168

¹For additional detail, see Current Industrial Report MQ311A, Flour Milling
2 This product code is primary to more than one industry. See industry 311822, product code 3118220211.
3 This product code is primary to more than one industry. See industry 311822, product code 31182202121.
4 This product code is primary to more than one industry. See industry 311822, product code 3118220231.
5 This product code is primary to more than one industry. See industry 311822, product code 3118220251.
6 This product code is primary to more than one industry. See industry 311822, product code 3118220241.
7 This product code is primary to more than one industry. See industry 311822, product code 3118220241.
8 This product code is primary to more than one industry. See industry 311822, product code 3118220271.

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.

Table 6b. Product Class Shipments for Selected States: 2002 and 1997

[Product classes covered are those that are economically significant and whose production is geographically dispersed, provided dispersion is not approximated by data in Table 2. Also, product classes are not shown if they are miscellaneous or "not specified by kind" classes. Statistics for some states are withheld because they are either less than \$2 million in product class shipments or they disclose data for individual companies in 2002. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, explanation of terms, and geographic definitions, see note at end of table. For information on geographic areas followed by *, see Appendix D. For meaning of abbreviations and symbols, see introductory text]

NAICS product class code	Product class and geographic area	Value of product shipments (\$1,000)
3112111	Wheat flour, except flour mixes, made in flour mills	
	United States	4 339 890
	1997 Michigan	5 146 612 74 096
	1997 Minnesota	79 937 317 855
	1997. North Carolina	417 386 131 334
	1997	153 096 102 038
	1997 Utah	108 773 100 072
	Washington	120 841 56 315 N
3112114	Wheat mill products, except flour	
	United States	532 977
	1997.	784 114 24 956 102 788
	1997. Minnesota	30 101
	1997 North Carolina	56 181 12 045
	1997 Oklahoma	12 405 48 155
	Utah	N 14 279 21 511
3112117	Corn mill products	
	United States	932 724
	North Carolina	903 232 25 222 17 163
311211A	Prepared flour mixes (including refrigerated and frozen doughs and batters), made in flour mills	
	United States	471 222 517 430
	North Carolina	9 136 N
311211B	Other grain mill products	
	United States	221 433 N
	1997 Minnesota	62 115 N

Note: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C. For geographical definitions, see Appendix D.

Table 7. Materials Consumed by Kind: 2002 and 1997

[Includes quantity and cost of materials consumed or put into production by establishments classified only in this industry. Data based on the 2002 Economic Census. For information on confidentiality protection, nonsampling error, and explanation of terms, see note 2 at end of table. For meaning of abbreviations and symbols, see introductory text]

Material code	Material consumed	Quantity	Delivered cost (\$1,000)
311211	Flour milling		
00900001	Total materials	x	4 561 904 5 761 270
11114003	1997. Wheat mil bushels 2002. 1997.	P820.5 785.0	3 196 517 3 990 970
11115003	Corn mil bushels 2002	P123.4	3 990 970 328 647 453 351
11119911	Barley mil bushels 2002	91.5 P1.9	5 112 6 538
11119913	Oats	251.4	57 046 D
11110005	Other grains (excluding wheat, corn, oats, barley, rice (rough), and sorghum) mil bushels 2002 1997 1997	P12.6 D	45 377 D
31121101	Wheat flour	7 658.8 16 424.0	80 344 127 929
31100015	Fats and oils	S	22 268
31131001	Sugar, cane and beet (sugar solids)	26.1 N	13 141 N
32222401	Bags (uncoated paper and multiwall)	×	63 645
31491101	Textile bags (burlap, cotton, polypropylene, etc.)	X	50 478 11 957
001900A3	1997 Bags (plastics, foil, and coated paper)	X X X	6 106 20 124 N
001900A1	Packaging paper and plastics film, coated and laminated	×	18 768
32221001	Paperboard containers, boxes, and corrugated paperboard	X	24 388
00970099	All other materials and components, parts, containers, and supplies	X X X	N 339 788 480 517
00971000	Materials, ingredients, containers, and supplies, nsk	X X X	334 782 524 213

Note 1: For some establishments, data have been estimated from central unit values that are based on quantity-value relationships of reported data. The following symbols are used when percentage of each quantity figure estimated in this manner equals or exceeds 10 percent of published figure: p-10 to 19 percent estimated; q-20 to 29 percent estimated. If 30 percent or more is estimated, figure is replaced by S.

Note 2: The data in this table are based on the 2002 Economic Census. To maintain confidentiality, the Census Bureau suppresses data to protect the identity of any business or individual. The census results in this table contain nonsampling errors. Data users who create their own estimates using data from American FactFinder tables should cite the Census Bureau as the source of the original data only. For explanation of terms, see Appendix A. For full technical documentation, see Appendix C.